The Incomplete Progress of Women in the Labor Market

Ryan Nunn and Megan Mumford
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We believe that today’s increasingly competitive global economy demands public policy ideas commensurate with the challenges of the 21st Century. The Project’s economic strategy reflects a judgment that long-term prosperity is best achieved by fostering economic growth and broad participation in that growth, by enhancing individual economic security, and by embracing a role for effective government in making needed public investments.

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The Project is named after Alexander Hamilton, the nation’s first Treasury Secretary, who laid the foundation for the modern American economy. Hamilton stood for sound fiscal policy, believed that broad-based opportunity for advancement would drive American economic growth, and recognized that “prudent aids and encouragements on the part of government” are necessary to enhance and guide market forces. The guiding principles of the Project remain consistent with these views.

NOTE

This policy proposal is a proposal from the authors. As emphasized in The Hamilton Project’s original strategy paper, the Project was designed in part to provide a forum for leading thinkers across the nation to put forward innovative and potentially important economic policy ideas that share the Project’s broad goals of promoting economic growth, broad-based participation in growth, and economic security. The author(s) are invited to express their own ideas in policy papers, whether or not the Project’s staff or advisory council agrees with the specific proposals. This policy paper is offered in that spirit.
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A CHAPTER IN THE RECENTLY RELEASED HAMILTON PROJECT BOOK

The 51%: Driving Growth through Women’s Economic Participation

The U.S. economy will not operate at its full potential unless government and employers remove impediments to full participation by women in the labor market. The failure to address structural problems in labor markets—including tax and employment policy—does more than hold back women’s careers and aspirations for a better life. In fact, barriers to participation by women also act as brakes on the national economy, stifling the economy’s ability to fully apply the talents of 51 percent of the population. By acting to remove barriers to women’s participation, we can realize stronger economic growth that will be more broadly shared by the American people.
Abstract

The gap between wages of men and women has fallen over the past several decades, reflecting women's economic progress. Successive generations of women have obtained more education and received higher wages, entering a broader range of occupations that had previously been male-dominated. However, a significant gender wage gap remains. Occupational segregation, differences in academic specialization, difficulty in balancing work and household responsibilities, and wage discrimination—among many other factors—likely underlie much of the remaining gender wage gap.

Introduction

One of the most important economic developments of the twentieth century was the improvement in educational and labor market opportunities for women. As a result of this progress, tens of millions of American women attained postsecondary degrees, entered the labor force, and earned wages that have grown over time. The U.S. economy and household living standards have benefited tremendously from these improvements: 41 percent of a typical household’s income is now generated by women (authors’ calculations; Bureau of Labor Statistics [BLS] 2016).1

However, women’s labor market outcomes—and in particular their earnings—do not yet equal those of men, even though women’s educational attainment has surpassed that of men. In this chapter we explore these trends, focusing especially on the earnings gap between men and women and the various factors that give rise to it. This analysis helps to provide important economic context for the policy proposals included in this volume.

Labor market progress for women in the United States has been undeniable. Growth in women’s wages and hours worked has exceeded that of men’s for the past forty years, although women’s wages and hours started at much lower levels (authors’ calculations; BLS 1979–2016). In this chapter, we document that growth over the 1979–2016 period. We also analyze women’s educational attainment relative to men’s, exploring both the overall growth and the different college majors that women and men have entered. These differences in specialization are paralleled by differences in occupations, which in turn are associated with some of the remaining shortfall in women’s earnings relative to men’s.

Regardless of how you measure it, there remains a large gap between men’s and women’s wages and hours worked. It is difficult to determine exactly which measure of the gap is most relevant to economic policy, however. The simplest measure—an unadjusted difference between the wages of men and women—reflects differences in a variety of factors, including discrimination outside and within the labor market, labor market experience, and occupation, among many others. By contrast, the adjusted male–female gap reflects the difference in wages that remains after adjustment for observable factors that vary across men and women, and is generally smaller than the unadjusted gap.

By either measure, the wage gap has declined. In 1979 the unadjusted and adjusted male–female hourly wage gaps were 44 percent and 32 percent, respectively. In 2016 the corresponding gaps had fallen to 16 percent and 15 percent.2 Notably, the total impact of adjustments for observable differences—including occupation and education—has diminished, reflecting progress made by women entering higher-paying occupations and obtaining more education.

The United States is not alone in continuing to exhibit large differences in men’s and women’s labor market outcomes. For example, the gender wage gap in the United States has roughly mirrored that of the United Kingdom since the 1970s. Both countries fall in the middle of the pack of economies for which data are available, displaying larger gender gaps than some countries, including Australia, France, and Sweden, but smaller gaps than others, including Japan and South Korea (OECD 2017).
Women’s Hours and Hourly Wages Have Grown Quickly

As women’s labor force participation rose in the 1980s—a development described in this volume’s chapter by Black, Schanzenbach, and Breitwieser—women’s wages also grew. A combination of rising wages for women and falling wages for men cut the unadjusted median wage gap in half, from almost $9 per hour (in inflation-adjusted 2016 dollars) in 1979 to more than $4 per hour in 1995 (see figure 1). While changes in relevant worker characteristics (i.e., education and labor market experience) have been found to explain about one-third to one-half of the narrowing of the wage gap in the 1980s, a variety of other factors also contributed, including the decline in wages for low-skilled men (O’Neill and Polachek 1993).

Figure 1 shows that this reduction in the hourly wage gap continued over the last two decades, bringing the 2016 gap to about $3 per hour. Although the rise in women’s wages

**FIGURE 1.**
Median Real Hourly Wage of Prime-Age Men and Women, 1979–2016

![Median Real Hourly Wage of Prime-Age Men and Women, 1979–2016](source)

**FIGURE 2.**
Median Real Hourly Wage of Prime-Age Men and Women, by Race and Ethnicity, 1979–2016

![Median Real Hourly Wage of Prime-Age Men and Women, by Race and Ethnicity, 1979–2016](source)
accounted for much of the convergence, the decline in men’s real wages—from about $23 per hour in 1979 to around $20 per hour in recent years—also contributed.

The gap between men and women in weekly hours worked has also declined, though less dramatically. From 1979 to 2016 prime-age employed men’s average weekly hours declined from 42.8 to 42.1 as prime-age employed women’s average weekly hours increased from 36.1 to 37.6 (authors’ calculations; BLS 1979–2016).

Wage differences between men and women also vary considerably by race and ethnicity. Figure 2 shows that the wage gap narrowed between men and women of each race/ethnicity through at least the 1980s. Represented as a share of men’s median wages, the gap between non-Hispanic white men and women in 2016 was 17 percent, whereas the gaps for non-Hispanic black and Hispanic men and women were smaller, at 9 percent and 12 percent, respectively. Differences in wages by race and ethnicity are now larger than gender gaps: notably, white women’s median wages surpassed those of both Hispanic and black men by the 1990s.

Recent Generations of Women Are Doing Better Than Their Predecessors

Much of the convergence in the wages of men and women happened as succeeding generations of women earned higher wages than their predecessors. By contrast, the wages of their male counterparts stagnated or declined, though the wages of the youngest men remain substantially higher than the wages of the youngest women.

FIGURE 3.
Median Real Hourly Wage of Women and Men, by Age and Birth Cohort, 1979–2016

Note: Hourly wages are adjusted for inflation using the CPI-U-RS deflator.
To explore these developments, we examine the wages of individual cohorts of men or women as they age. Figure 3 shows that women born in the early 1980s earned higher wages early in their careers than did those born in the early 1960s. For example, women who were born in the early 1980s received median wages of $17 per hour when they were ages 30 to 34, whereas women born in the early 1960s made only $15 per hour when they were ages 30 to 34. This is a large improvement across generations, amounting to about $4,000 in annual earnings for a full-time worker.

As seen in figure 3, over the course of their careers women of all generations experienced relatively slow wage growth: for example, those born in the early 1960s saw only a 28 percent wage increase from their late 20s through early 50s. To some extent, this slow growth might reflect increasing demands at home during a woman’s life that shift women toward lower-wage but more-flexible jobs. Because many employers place a premium on an employee’s ability to work long hours, women’s hourly wages can be adversely affected by demands at home (Flabbi and Moro 2012; Goldin 2014a).

By contrast, the wages earned by later generations of men remained about the same as those of their predecessors, with the most recent cohort receiving a slightly lower median wage ($18.40) in their early 30s than the cohort born in 1960–64 ($18.48). However, when compared to women, men continue to enjoy both higher wage levels and faster wage growth during a career. As a result, the wage gap between men and women of all cohorts is greater for older workers than it is for younger workers.

Stagnation in men’s wages is also apparent when the analysis is restricted to male college graduates (not shown). For female college graduates, wages have also remained roughly level across cohorts, indicating that wage gains across generations of women are associated largely with rising educational attainment.

Educational Attainment of Women Has Surpassed That of Men

Educational attainment is of crucial importance in determining wages for individual workers and accounting for variation in wages across groups. Throughout the period we examine, more education is associated with substantially higher wages. Even as average educational attainment rose, the wage advantage of workers with a college degree remained high (Hubbard 2011).

From 1979 to 2016 women’s educational attainment increased both over time and relative to men’s attainment. In fact, the education gap between men and women reversed for bachelor’s degrees in 1996 and for advanced degrees in 2003. Women now outperform men by about three percentage points in both bachelor’s degree and advanced degree attainment.
These gains have powered much of the increase over time in women’s wages. However, the gender gap remains considerable even after women have surpassed men in educational attainment, as shown in figures 1 and 4 (though it should be noted that the labor market impact of that educational overtaking may not yet have been fully observed).

One possible contributor to the remaining wage gap is differences in the type of education women and men obtain. Put another way, are differing college majors driving some of the wage gap? Over time, women have shifted toward traditionally male college majors, resulting in a reduction in gender segregation by major between 1960 and 1980 (Blau and Kahn 2017). However, figure 5 shows that larger shares of women in a given college major continue to be associated with lower wages. One outlier in this relationship is the pharmacy major, where Goldin and Katz (2016) have found that technology and business practices support the availability of flexible part-time work.3

The Hourly Wage Gap Remains after Adjusting for Observable Worker Characteristics

Thus far, we have explored the unadjusted wage gap, which is the difference in men’s and women’s hourly wages before any adjustments are made for differences in variables such as educational attainment. However, this unadjusted wage gap might not be the appropriate measure for some questions. Often, some of the most urgent questions concern discrimination in the labor market. When investigating discrimination, researchers attempt to isolate wage differences between “comparable” male and female workers. Depending on what adjustments are made to make workers more comparable, estimates of wage gaps will differ.

Comparability is typically defined in terms of observable worker characteristics including age, education, and occupation. As an example, we might want to compare the difference in wages of similarly aged men and women with the same level of education. Without adjustments for age and education, among other factors, differences in men’s and women’s preferences—or discrimination outside the labor market, such as barriers to college majors that lead to high-paying jobs—could bias estimates of labor market discrimination. For instance, women of older generations were less likely than men to obtain a college degree (see figure 4), and could expect to earn lower wages even in the absence of labor market discrimination.

However, when adjusting for worker characteristics, there is a danger of controlling for too many variables (Angrist and Pischke 2009). For example, if labor market discrimination against women takes the form of barriers to particular high-paying occupations, then adjusting for occupation is inappropriate, because it implicitly assumes that all discrimination occurs within occupations.

FIGURE 5.
Prime-Age Women’s Median Annual Earnings and Share of Women in College Major

Source: American Community Survey 2015; authors’ calculations.
Note: Prime-age indicates ages 25–54. Sample is restricted to employed respondents, and to majors with at least 25 male and female respondents.
It is therefore not straightforward to obtain an appropriate comparison of women’s and men’s wages. In figure 6 we take the approach of showing a number of different measures of the wage gap—unadjusted and then adjusted by various factors—to explore the difference made by various assumptions. Estimates are provided for 1979 and 2016 to show how the wage gap has evolved over time.

Moving left to right, we begin with the unadjusted comparison of wages of prime-age employed men and women, which results in a wage gap of 16 percent for 2016, well below the 44 percent gap in 1979. Next, we adjust for age and race, but find that those factors do not much affect the gap in either year. To the right, an adjustment for educational attainment is made along with the previous adjustments. In 1979 the gap shrinks slightly, but in 2016 the gap actually grows. This indicates that women are now earning less than their educational attainment would suggest. Finally, we adjust for occupation, thus reducing the wage gap in both 1979 and 2016, and bringing the hourly gap to 15 percent in 2016. Notably, the difference made by adjusting for detailed occupation is larger in 1979 (when the gap falls by 10.5 percentage points) than in 2016 (when the gap falls by 6.5 percentage points), consistent with the evidence that occupations have become less segregated by gender over time (Cortes and Pan forthcoming).4

Another possibly relevant consideration is that women are more likely than men to work part time, which could affect hourly wages if firms impose a part-time penalty for workers whose availability is reduced (Goldin 2014a). Appendix figure 1 shows estimates of the wage gap using a sample restricted to full-time workers. This sample restriction reduces the wage gap slightly in both 1979 and 2016.

Given the potential impact of being a parent on women’s labor force participation, it is natural to ask whether the presence of children affects estimated wage gaps (Goldin 2014a). Because the labor market effects of children may depend on birth timing, marital status, and educational attainment—in addition to interacting with other family choices and outcomes—this is a particularly difficult question to answer. However, the presence of young children, particularly for married and high-skilled women, appears to magnify the gender wage gap (Barth, Kerr, and Olivetti 2017; Goldin et al. 2017).

The Role of Occupations

Given the importance of workers’ occupations for understanding the wage gap, we next explore the extent to which men and women sort into different occupations, as well as the variation in wages across occupations. Together, these two factors can shed light on the overall difference between men’s and women’s wages.

Occupational segregation is defined as the degree to which occupations skew male or female. We do not attempt to explain why the occupations skew the way they do, but simply describe how the occupations vary and how segregation has

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**Figure 6.**

Unadjusted and Adjusted Hourly Wage Gaps between Prime-Age Men and Women, 1979 and 2016


Note: Prime-age indicates ages 25–54. Model specifications are cumulative.
changed over time. This is relevant to the overall wage gap: when jobs that are male-dominated pay more than other jobs, the gender wage gap is higher.

Figure 7 shows that occupational segregation in the United States declined markedly in the 1980s and has since continued a generally downward trend, consistent with the findings in earlier work (Blau, Simpson, and Anderson 1998). Calculations that make use of even earlier data—for the 1900–50 period—find still higher levels of occupational segregation (Cortes and Pan forthcoming). As women joined the workforce and attained more education, they entered previously male-dominated occupations such as insurance adjustment, law,

**FIGURE 7.**
Prime-Age Occupational Segregation by Gender, 1980–2016

![Graph showing occupational segregation index from 1980 to 2016.](image_url)

Note: Prime-age indicates ages 25–54. We calculated the occupational segregation index using the Cortes and Pan (forthcoming) definition and harmonized 1990 occupation codes. The absolute value of differences between the percentages of male and female employees in an occupation are summed across occupations and divided in half.

**FIGURE 8.**
Prime-Age Women’s Median Hourly Wage and Share of Occupation

![Graph showing women’s median hourly wage and share of occupation.](image_url)

Source: Current Population Survey 2016; authors’ calculations.
Note: Prime-age indicates ages 25–54. Sample is restricted to respondents who attained at least a bachelor’s degree and were employed in occupations with at least 25 male and female survey respondents with at least a bachelor’s degree.
and sales. However, recent years have seen a slowing pace of occupational desegregation, limiting the narrowing of the gender wage gap that can occur through this channel.

The decline in occupational segregation has been driven by women’s increasing educational attainment as well as technological changes including automation that have reduced the importance of physical strength in the labor market (Goldin 2014b). Occupational segregation remains substantial, however. Preferences for job flexibility, differences in skills and personality traits and social norms can all affect which jobs men and women enter (Cortes and Pan forthcoming), in addition to more-direct discrimination within or outside the labor market.

Occupational segregation affects the wage gap if the fields women disproportionately enter are associated with lower wages. Figure 8 explores the relationship between women’s wages and the share of an occupation that is female. Because graduates of a particular major often find jobs in widely differing occupations, the pattern revealed by figure 8 would not necessarily mimic the results of our college major analysis. However, as the share of an occupation that is female increases, we do observe a decrease in college-educated women’s earnings. The figure also demonstrates that median wages vary considerably across occupations, such that pay is sometimes similar in occupations that feature very different gender ratios. For example, 88 percent of registered nurses are women and 25 percent of architects are women, but median hourly wages for women in both occupations are roughly $30. Pharmacy again stands out as an occupation with a strong female presence and high hourly wage, at around $48 per hour.5

Wage differences within and across occupations might be driven by disparate responsibilities outside work. Women spend more time than men on domestic activities; for example, in 2016 married mothers who were full-time employees reported spending an average of 26 hours per week on domestic activities, while married fathers who were full-time employees reported spending only 17 hours per week.6 Housework is negatively associated with wages for both married and unmarried women (Blau and Kahn 2017; Hersch and Stratton 2002). Furthermore, women are more likely to perform daily household tasks such as meal preparation and cleanup that have a stronger association with lower wages than they are to spend time on intermittent tasks such as outdoor and maintenance activities, which can be postponed or contracted out (Hersch and Stratton 2002; Noonan 2001).

The U.S. Wage Gap Is Similar to That of Other Industrialized Countries

Finally, we place the U.S. wage gap in the context of other industrialized countries. The Organisation for Economic Co-operation and Development (OECD) has compiled earnings

![Earnings Gaps in Selected Countries, 1970–2016](image-url)
data beginning in 1970 from national agencies in order to examine the differences in the unadjusted earnings gap for men and women working full time (OECD 2017). Figure 9 shows that the earnings gap in the United States began the period at a high level relative to selected peer countries, but fell during the 1970s and 1980s and today stands near the middle of the international distribution.

Countries with particularly high wage gaps such as Japan and South Korea have also shown some reduction, but their levels remain relatively high. Conversely, Australia, Finland, and Sweden began with relatively small wage gaps and have experienced more-gradual narrowing.

**Conclusion**

The gap between wages of men and women has fallen over the past several decades. Though some of the decline reflected an unwelcome fall in men’s wages, most of the reduction in the gap was due to rising wages for women. Successive generations of women have obtained more education and received higher wages throughout the life course, entering a broader range of occupations that had previously been male-dominated.

However, a significant wage gap remains, though it is not always straightforward to trace its origins or its responsiveness to potential policy reforms. Occupational segregation, differences in academic specialization, difficulty in balancing work and household responsibilities, and wage discrimination—among many other factors—likely underlie much of the remaining gender wage gap.

**APPENDIX FIGURE 1.**

Unadjusted and Adjusted Hourly Wage Gaps between Prime-Age Full-Time Men and Women, 1979 and 2016

Note: Prime-age indicates ages 25–54. Model specifications are cumulative.
Authors

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Ryan Nunn is a fellow in Economics Studies at the Brookings Institution and policy director for The Hamilton Project. He was previously an economist in the Office of Economic Policy at the U.S. Department of the Treasury. At both The Hamilton Project and the Department of the Treasury, he has conducted work on a variety of topics including occupational licensing and non-compete policy. Nunn’s research interests include labor economics and public finance, with a particular focus on labor market institutions. He received his doctorate in Public Policy and Economics from the University of Michigan, Ann Arbor.

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Endnotes

1. We classify households into quintiles of total earned income across prime-age respondents (25 to 54 years old), and observe the average share of earned income in the household that was generated by women for households in the middle earnings quintile.

2. Throughout this chapter we restrict our focus to prime-age workers (25 to 54 years old), unless otherwise specified. It is also important to note that gender gaps are considerably larger if one examines annual earnings, rather than hourly wages. See box 1 for a brief discussion.

3. In figure 5, we examine annual earnings rather than hourly wages because of different data available in the American Community Survey, which provides information on college major.

4. However, we should note that some other researchers have found an increasing role for occupational adjustments over time when using a different statistical approaches in different datasets (Blau and Kahn 2017).

5. When we do not restrict the sample to those with college degrees, the variation across occupations increases and we no longer observe an association between women’s share in an occupation and median wages (not shown in figure 8).

6. Domestic activities include “household activities,” “purchasing goods and services,” and “caring for and helping household members” in the American Time Use Survey (BLS 2016b).

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Abstract

The gap between wages of men and women has fallen over the past several decades, reflecting women’s economic progress. Successive generations of women have obtained more education and received higher wages, entering a broader range of occupations that had previously been male-dominated. However, a significant gender wage gap remains. Occupational segregation, differences in academic specialization, difficulty in balancing work and household responsibilities, and wage discrimination—among many other factors—likely underlie much of the remaining gender wage gap.

Median Real Hourly Wage of Prime-Age Men and Women, 1979–2016

![Graph showing the median real hourly wage of prime-age men and women from 1979 to 2016.]

Note: Prime-age indicates ages 25–54. Hourly wages are adjusted for inflation using the CPI-U-RS deflator.